CLAIMS

2.

 A method of producing nano-composite powder consisting essentially of hydroxyapatite(HA) and zirconium oxide (ZrO₂) comprising the steps of: reacting orthophosphoric acid with calcium hydroxide to form a HA suspension; adding zirconium suspension to the HA suspension to form a composite feedstock; subjecting the composite feedstock to Radio Frequency (RF) Plasma

- The method according to claim 1, wherein the quantity of zirconium oxide
- A nano-composite powder comprising:
 60-90wt% calcium hydroxyapatite;
 10-40wt% zirconium oxide; and
 traces of calcium phosphate.

Spraying to form the nano-composite powder.

suspension added is in the range of 10 to 40 weight %.